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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/755,437	01/05/2001	Richard L. McCreery	OSU1159-141	5136
8698 75	590 05/15/2003			
STANDLEY & GILCREST LLP 495 METRO PLACE SOUTH SUITE 210 PUBLISH OF A2017			EXAMINER	
			ZACHARIA, RAMSEY E	
DUBLIN, OH 43017			ART UNIT	PAPER NUMBER
			1773	h
			DATE MAILED: 05/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

·		AS-4			
	Application No.	Applicant(s)			
Office Assistant Communication	09/755,437	MCCREERY, RICHARD L.			
Offic Action Summary	Examiner	Art Unit			
	Ramsey Zacharia	1773			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica  - If the period for reply specified above is less than thirty (30) day  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, b  - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).  Status	CFR 1.136(a). In no event, however, may a tion.  s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MOI by statute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed of	on				
2a) This action is <b>FINAL</b> . 2b)	This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims					
4) Claim(s) 1-49 is/are pending in the appl	ication.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1-49 are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority docu	uments have been received.				
2. Certified copies of the priority docu	uments have been received in A	pplication No			
3. Copies of the certified copies of th application from the Internation  * See the attached detailed Office action for	nal Bureau (PCT Rule 17.2(a)).	_			
14) Acknowledgment is made of a claim for do	omestic priority under 35 U.S.C.	§ 119(e) (to a provisional application).			
a) ☐ The translation of the foreign langua 15)☐ Acknowledgment is made of a claim for do					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9-3) Information Disclosure Statement(s) (PTO-1449) Paper I	48) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)			
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Of	ffice Action Summary	Part of Paper No. 4			

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-18 and 44-46, drawn to a monolayer construction, classified in class
     428, subclass 338.
  - II. Claims 19-34, 39-41, and 47-49 drawn to an electronic junction, classified in class428, subclass 411.1.
  - III. Claims 35-38, drawn to a pixel array, classified in class 349, subclass 1+.
  - IV. Claim 42, drawn to a memory device, classified in class 360, subclass 137.
  - V. Claim 43, drawn to a field emitter, classified in class 257, subclass 9+.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II-V (i.e. I and II, I and III, etc.) are related as subcombination and combination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the roughness of the substrate in Groups II-V can be greater than the average length of the molecular units. The subcombination has separate utility such as an field emitter for the combinations of Groups II-IV and a pixel array for the combination of Group V.

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3. The inventions of Groups II-V are unrelated to each other. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions are not disclosed as capable of use together and have different modes of operation, functions, and effects since the invention of Group II is an electronic junction, that of Group III is a pixel array, that of Group IV is a memory device, and that of Group V is a field emitter.

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramsey Zacharia whose telephone number is (703) 305-0503.

  The examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau, can be reached on (703) 308-2367. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9310 for non afterfinal correspondences and (703) 872-9311 for after-final correspondences.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Ramsey Zacharia

**Primary Examiner** 

Technology Center 1700

5/14/03